STR-AV300E

SERVICE MANUAL

AEP Model

SPECIFICATIONS

Amplifier section

Continuous RMS power output
50 watts + 50 watts
(8 ohms, according to DIN 45500)

Harmonic distortion
Less than 0.8% at rated output

Frequency response
PHONO:RIAA equalization curve ±0.5 dB
CD, VIDEO, TAPE: 10 Hz – 50 kHz $^{+0}_{-3}$ dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	2.5 mV	50 kilohms	74 dB 72 dB* (A, 2.5 mV)
CD VIDEO TAPE	150 mV	50 kilohms	95 dB 80 dB* (A, 150 mV)

* '78 IHF

Outputs

REC OUT, VIDEO (AUDIO) OUT	Voltage 150 mV Impedance 10 kilohms
SPEAKER A, B	Accepts speakers of 8–16 ohms
HEADPHONES	Accepts low and high impedance headphones

Tone controls: BASS: ±8 dB at 100 Hz
TREBLE: ±8 dB at 10 kHz
Loudness: +8 dB at 100 Hz (att. 30 dB)
Muting level: –20 dB

	FM tuner	AM tuner
Tuning range	87.5 – 108 MHz	531 – 1,602 kHz
Antenna terminals	West Germany model: 75 ohms, unbalanced AEP model: 300 ohms, balanced 75 ohms, unbalanced	External antenna terminal
Sensitivity at 46 dB quieting	18.3 dBf, 4.5 μV (mono) 38.3 dBf, 45 μV (stereo)	—
Usable sensitivity	11.2 dBf, 2 μV (IHF)	500 μV (at 1,000 kHz)
Signal-to-noise ratio	70 dB (mono) 64 dB (stereo)	54 dB (at 50 mV/m)
Harmonic distortion	0.2% (mono), 0.4% (stereo) at 1 kHz	0.3% (at 50 mV/m, 400 Hz)
Selectivity	50/60 dB at 300/400 kHz	35 dB at 9 kHz
Separation	45 dB at 1 kHz	
Frequency response	40 Hz – 12.5 kHz $^{+0.5}_{-1}$ dB	

General

System
Tuner section: PLL quartz-locked digital synthesizer system
Preamplifier section: low-noise NF type equalizer amp
Power amplifier section: quasi-complementary SEPP

Power requirements
220 V AC, 50/60 Hz

Power consumption
110 watts

— continued on next page —

MICROFILM

FM STEREO/FM-AM RECEIVER

SONY®

AC outlets	Two switched (Total 100 watts)
Dimensions	Approx. 430 x 105 x 300 mm (w/h/d) (17 x $4^1/_4$ x $11^7/_8$ inches) including projecting parts and controls
Weight	Approx. 6.3 kg (13 lb 14 oz) Approx. 7.6 kg (16 lb 12 oz) in shipping carton

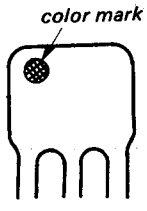
Accessories supplied

FM ribbon antenna (1, not supplied with the West German model)
AM layout-free antenna (1)

• IF OFFSET ADJUSTMENT (FM IF)

Diode Installations Depending on the Ceramic Filters (CF101, 102)

This set employs three ceramic filters (CF101, 102) which should have the same color marking to identify their center frequency Therefore FM IF offset adjustment by diodes (D313,314) installation is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



Ceramic filter		Diode installation		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	※A D313	※B D314	
White	10.750	O	O	10.750
Red	10.700	x	x	10.700
Black	10.650	x	O	10.650
			O : installed x : not installed	

FM intermediate frequency is determined by the three types as shown above. Ceramic filters of same center frequency, i.e., of same color coding should be used for CF101 through CF102.

WARNING !!

ADVARSEL!
Lithiumbatteri – Eksplosionsfare
Udskiftning må kun foretages af en sagkyndig, og som beskrevet i servicemanualen.

LITHIUM BATTERY

SHOULD ONLY BE CHANGED BY TECHNICAL PERSONNEL. THERE IS A RISK FOR EXPLOSION AT A WRONG HANDLING.

"Batteriet må kun udskiftes med et batteri af samme fabrikat og type".

Because of the risk for explosion the battery must be replaced with the same type and manufacture.

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FEATURES

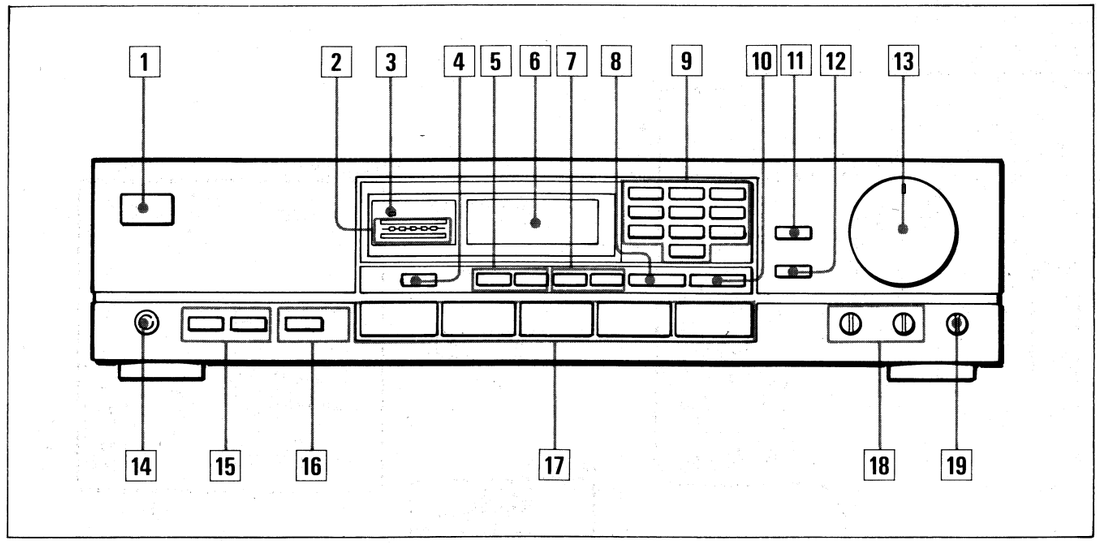
The STR-AV300E is a combined receiver and audio/video control center.
You can listen to various audio/video program sources through the amplifier of the receiver and the speakers connected to it.
In the tuner section, a quartz-locked digital synthesizer system allows precise tuning. A total of 10 FM/AM stations can be preset.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

1-1. LOCATION AND FUNCTION OF CONTOROLS



1 POWER switch

2 Signal strength indicator
Shows the receiving signal strength.

3 FM STEREO indicator

4 FM MODE button
When an FM stereo program is noisy or hard to receive, press this button. The FM STEREO indicator goes out (the sound is heard in monaural, but the reception will be improved). To return to the stereo mode, press again or change the frequency.

5 BAND selectors

6 Display window

7 TUNING +/− buttons

8 MEMORY SCAN button

9 Numeric buttons
For presetting a station or for tuning in a preset station.

10 MEMORY PRESET button

11 MUTING switch
Press to attenuate the sound level immediately (−20dB attenuation).
To restore it, press again.

12 LOUDNESS switch
Press when listening to a program source at a low volume. The low frequency sound is emphasized.

13 VOLUME control knob

14 HEADPHONES jack (stereo phone jack)

15 SPEAKERS selectors
Depress to select which speaker system to drive. For both speaker systems, depress A and B.

16 TAPE 2 MONITOR button and indicator
Press the button to listen to taped programs of the tape deck connected to the TAPE 2 inputs. To listen to the other program sources, press it again.

17 Function selectors

18 TONE controls

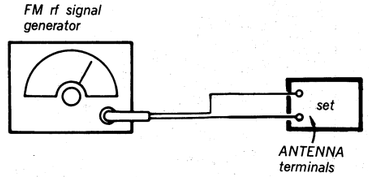
19 BALANCE control
Turn clockwise to decrease the left channel volume, and counterclockwise to decrease the right channel volume.

SECTION 2
ELECTRICAL ADJUSTMENTS

2-1. FM SECTION ADJUSTMENTS

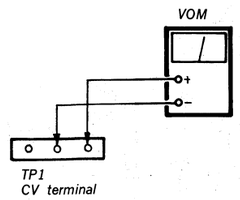
FM FREQUENCY COVERAGE ADJUSTMENT

Setting:



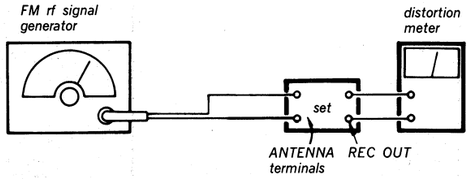
Carrier frequency: 108MHz
Modulation: 400Hz, 75kHz deviation (100%)
Output level: 1mV (60dB)

1 Adjust L106 so that VOM reads 8.5 ±0.2V.
2. After the adjustment, set FM rf signal generator frequency to 87.5MHz.
Confirm that VOM reads 2.6V ±0.5V.

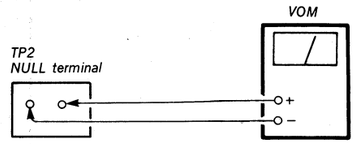


FM DISCRIMINATOR ALIGNMENT

Setting:



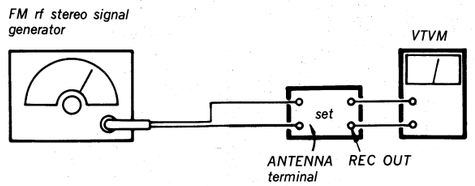
Carrier frequency: 98MHz
Modulation: 400Hz, 75kHz deviation (100%)
Output level: 1mV (60dB)



Procedure:
1. Tune the set to 98MHz.
2. Adjust the T201 for 0V reading on VOM.
3. At this time, confirm distortion should be within 0.5%.

FM TRACKING ADJUSTMENT

Setting:

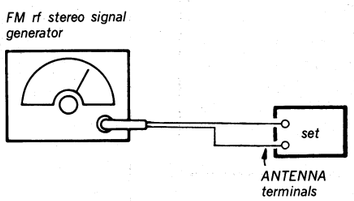


Carrier frequency: 98MHz
Modulation: 400Hz, 75kHz deviation (100%)
Output level: 3.2—5.3μV (10—15dB)

1. Adjust L101, 102: AEP model, L101, L103: West Germany model for maximum reading on VTVM.

FM TUNING STOP ADJUSTMENT

Setting:



Carrier frequency: 98MHz
Output level: 14.3μV (23dB)
Modulation
Audio 400Hz: 33.75kHz deviation (45%)
Sub channel 38kHz: 33.75kHz deviation (45%)
Pilot signal 19kHz: 7.5kHz deviation (10%)

Procedure:
1. Tune the set to 98MHz by pressing the TUNING buttons.
2. Adjust RV201 so that the STEREO LED goes on.

FM IF ADJU

Setting:

FM rf stereo sign. generator

Carrier frequency:
Output level:
Modulation
Audio 400Hz:
Sub channel 38
Pilot signal 19k

Procedure:
Adjust the bla

FM METER

Setting :

FM RF stereo si. generator

Carrier frequency:
Output level:
Modulation
Audio 400Hz:
Sub channel 3.
Pilot signal 19

procedure :
Adjust the RV.
goes on.

2-2. AM S

Setting:

AM rf signal generator

30% amplitude modulation by 400Hz signal

distortion meter

REC OUT

VOM

+
−

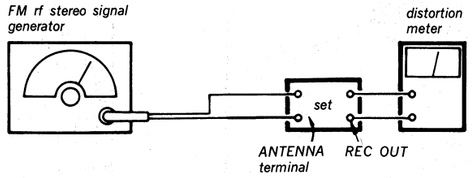
M.
be within 0.5%.

%)
%)
)

TUNING buttons.
goes on.

FM IF ADJUSTMENT

Setting:

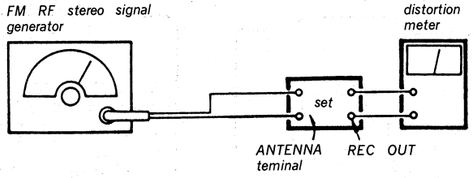


Carrier frequency:	98MHz
Output level:	1mV (60dB)
Modulation	
Audio 400Hz:	33.75kHz deviation (45%)
Sub channel 38kHz:	33.75kHz deviation (45%)
Pilot signal 19kHz:	7.5kHz deviation (19%)

Procedure:
Adjust the black core of T101 for minimum distortion.

FM METER ADJUSTMENT

Setting :

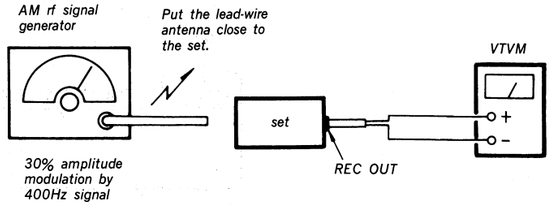


Carrier frequency:	98MHz
Output level:	50μV (45dB)
Modulation	
Audio 400Hz:	33.75kHz deviation (45%)
Sub channel 38kHz:	33.75kHz deviation (45%)
Pilot signal 19kHz:	7.5kHz deviation (19%)

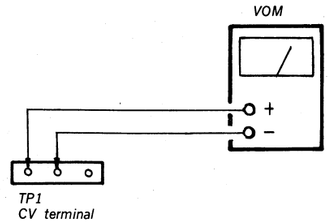
procedure :
Adjust the RV202 so that the 5 point LED of the signal meter goes on.

2-2. AM SECTION ADJUSTMENTS

Setting:



AM FREQUENCY COVERAGE ADJUSTMENT



	Frequency display in set	Voltage at TP (CV)	Adjustment part
1.	1602kHz	8.0 ±0.2V	T401

AM TRACKING ADJUSTMENT

Procedure:
1. Tune the set to the SG signal.
2. Adjust for a maximum reading on VTVM.

	SG and set frequency	Adjustment parts	Reading on VTVM
1.	603kHz	T401	Maximum

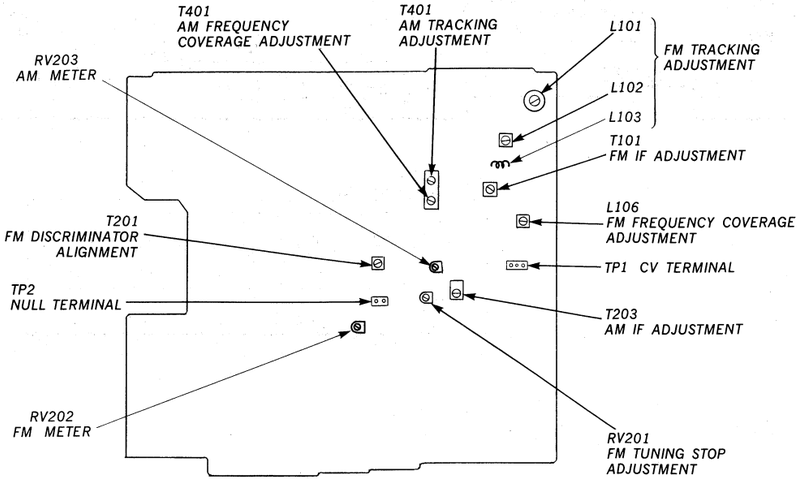
AF IF ADJUSTMENT

Procedure:
1. Tune the set to the SG signal.
2. Adjust for a maximum reading on VTVM.

	SG and set frequency	Adjustment parts	Reading on VTVM
1.	1404kHz	T203	Maximum

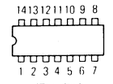
AM METER ADJUSTMENT

Procedure :
1. Tune the to 999kH (70dB)
2. Adjust the RV203 so that the 4 point LED of the signal meter goes on.

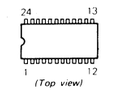


● Semiconductor Lead Layouts

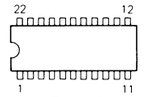
CX7925B



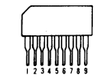
LA1266



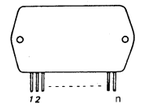
LA3401



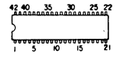
LB1403N
μPC4570HA-1



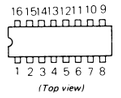
STK4182MK2



TMP47C210N-3074



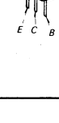
μPD4052BC



DTA124ES
2SA1048GR
2SC634SP
2SC2724-E

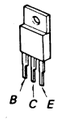
2SA988-F

2SB734
2SD774-3



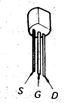
2SC535

2SD1585L

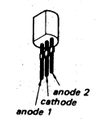


2SK241-Y

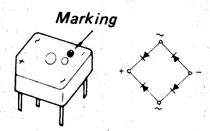
2SK246-GR



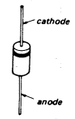
KV1310



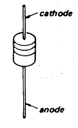
RB402



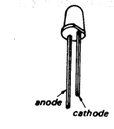
RD16E-B2
RD18E-B2
RD20E-B2
RD6.8E-B2



1SS133



SLR-34MC3
SLR-34VC3



SECTION 3
DIAGRAMS

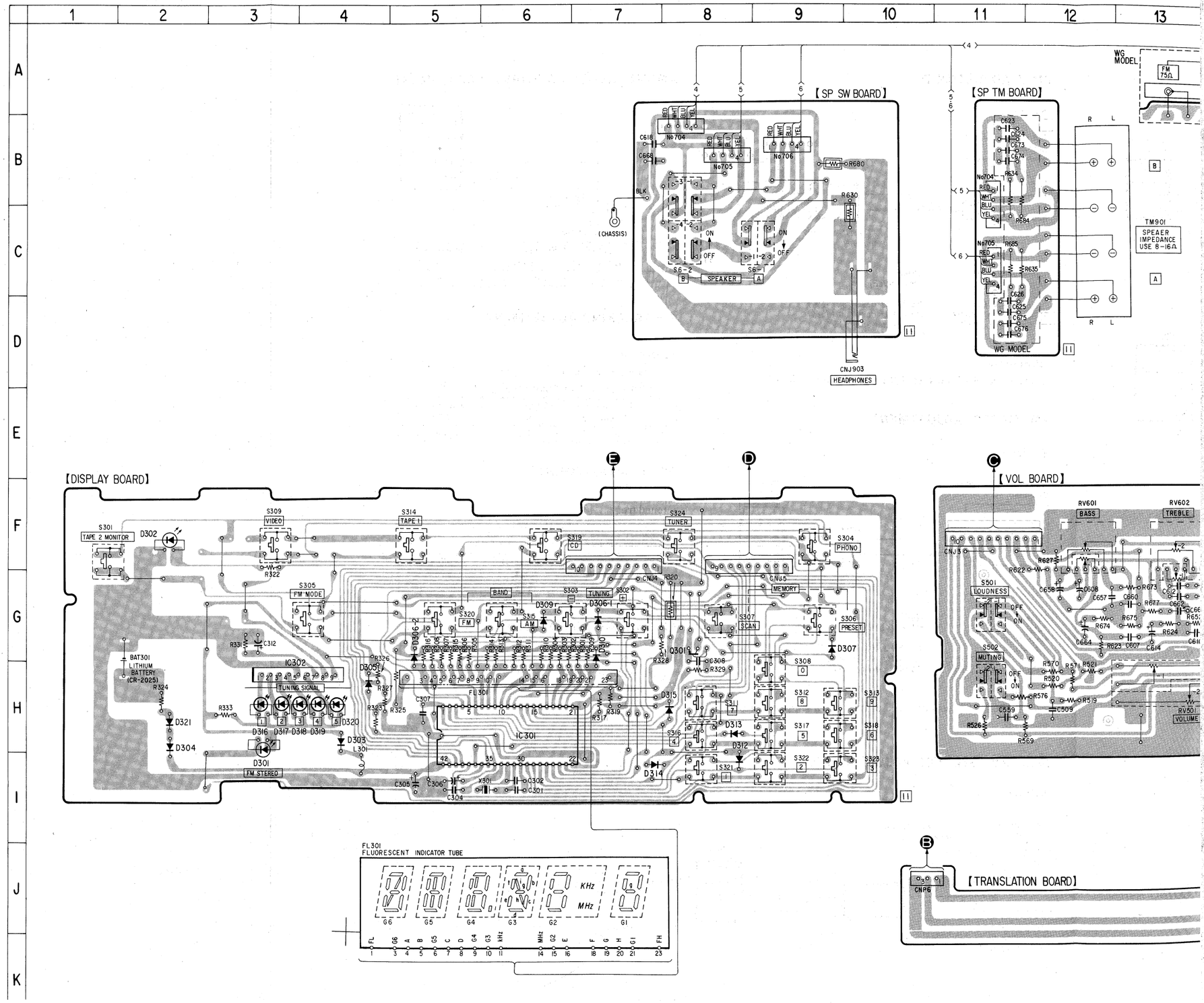
• SEMICONDUCTOR LEAD LAYOUTS

Ref. No.	Location	Ref. No.	Location
D101	B-16	IC501	B-18
D102	C-16	IC502	C-20
D103	E-16	IC503	C-22
D104	D-16	IC504	C-21
D107	C-17	IC505	C-23
D201	I-18	IC601	F-27
D202	I-18		
D203	G-17	Q101	B-17
D204	G-19	Q102	D-16
D301	H-3	Q103	E-17
D302	F-2	Q104	E-16
D303	H-4	Q105	F-17
D304	H-2	Q106	E-16
D305	H-4	Q107	E-17
D306-1	G-7	Q201	G-16
D306-2	G-5	Q202	G-17
D307	G-9	Q203	G-17
D309	G-6	Q204	G-16
D310	G-7	Q205	F-16
D312	I-8	Q208	I-20
D313	H-8	Q301	G-8
D314	I-7	Q501	J-25
D315	H-8	Q502	J-24
D316	H-3	Q551	J-24
D317	H-3	Q601	G-23
D318	H-4	Q602	I-24
D319	H-4	Q603	I-23
D320	H-4	Q604	I-23
D321	H-2	Q605	I-23
D501	E-20	Q651	F-22
D502	E-20	Q801	I-21
D503	E-20	Q802	I-22
D601	G-22	Q803	H-21
D602	I-22		
D603	I-23		
D651	E-23		
D801	D-24		
D803	I-21		
D805	H-21		
D806	I-22		
D807	G-21		
D808	G-21		
IC201	F-18		
IC202	H-18		
IC203	G-16		
IC301	H-6		
IC302	H-3		

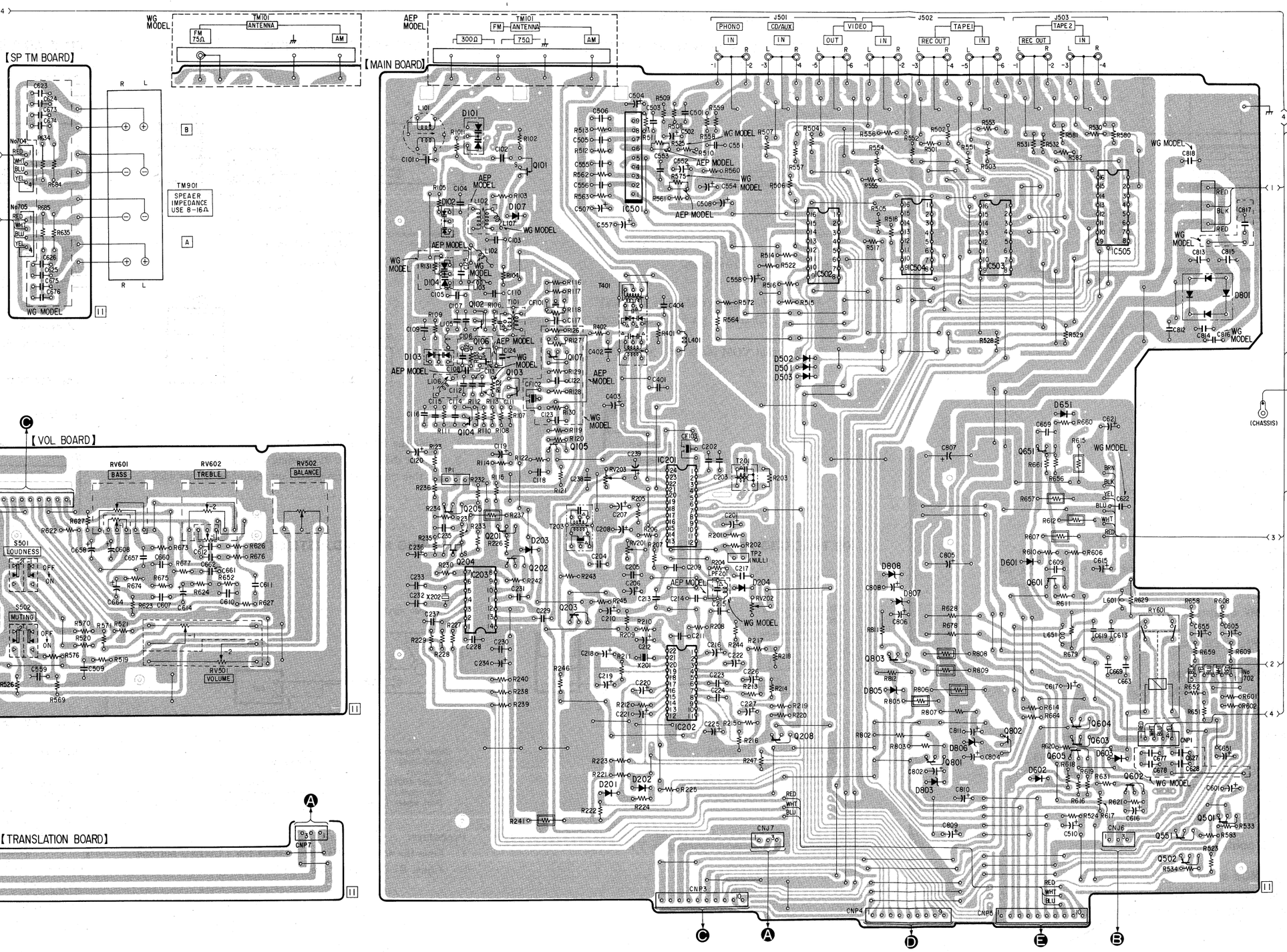
Note:

- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- WG model: West Germany model

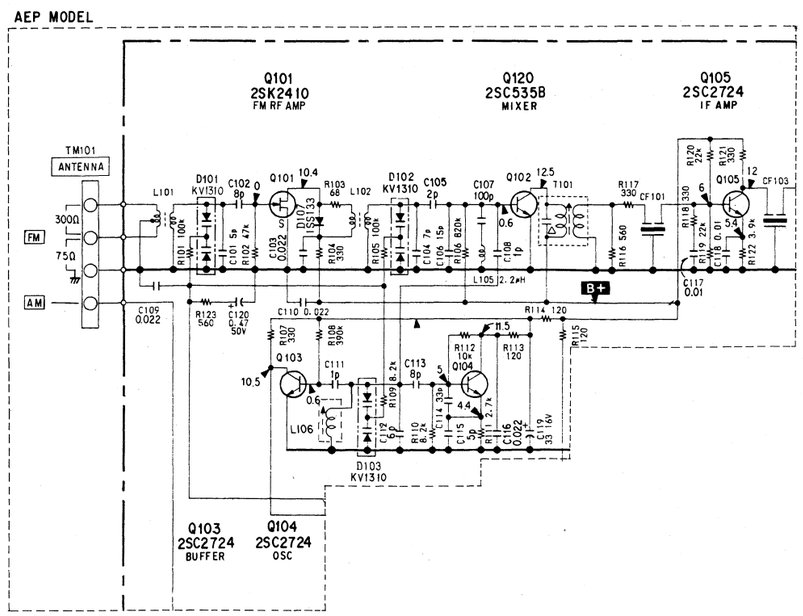
3-1. PRINTED WIRING BOARDS

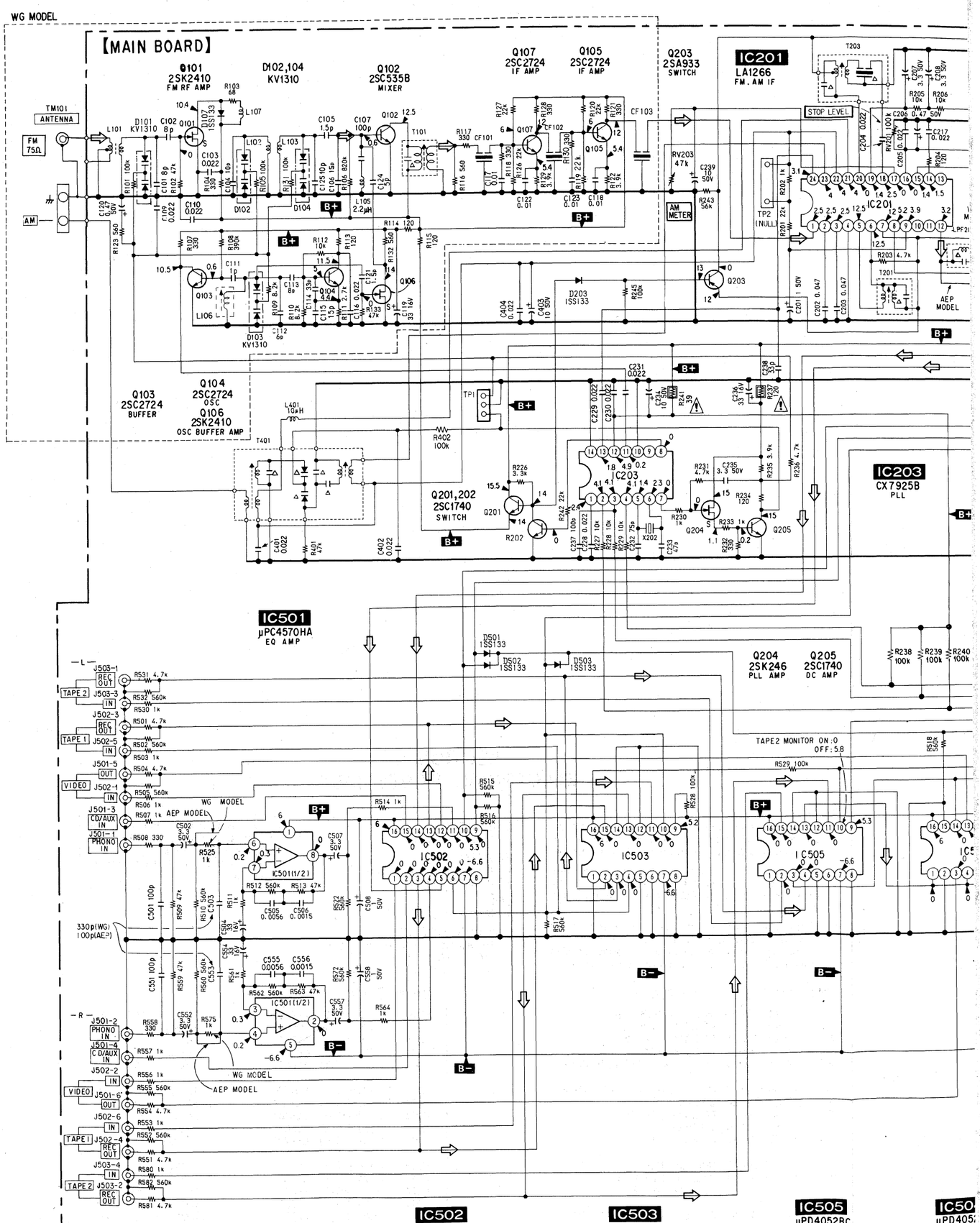


11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29



3-2. SCHEMATIC DIAGRAM





14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

A B C D E F G H I J K

【DISPLAY BOARD】

FL301 FLUORESCENT INDICATOR TUBE

IC201
LA1266
FM.AM IF

IC202
LA3401
FM MPX

IC203
CX7925B
PLL

IC301
TMP47C210N-3074
MICRO COMPUTER

IC302
LB1423N
LED DRIVE

D316-320
SLR-34MC3

D301,302
SLR-34MC3

Q204 2SK246 PLL AMP
Q205 2SC1740 DC AMP
Q208 2SC1740 MUTING
Q301 DTA124ES SWITCH
Q501 2SA933 MUTE
Q502 2SA933 MUTE
Q551 2SA933 MUTE
Q601 2SA988 CURRENT DET
Q602 2SC1740 SWITCH
Q603,604 2SC1740 SWITCH
Q605 2SC1740 RELAY DRIVE
Q651 2SA988 CURRENT DET
Q801 2SD774 VOL REG
Q802 2SD1585 VOL REG

IC601
STK4182MK2
POWER AMP

IC504
μPD4052BC
SWITCH

IC505
μPD4052BC
SWITCH

【IC BOARD】

【VOL BOARD(1/2)】

【VOL BOARD(1/2)】

【SP SW BOARD】

【SP TM BOARD】

TUNING SIGNAL

D316 D317 D318 D319 D320
1 2 3 4 5

TAPE2 MONITOR ON:0 OFF:5.8

TAPE2 MONITOR ON:0 OFF:5.7

TAPE2 MONITOR ON:0 OFF:0

WG MODEL

AEP MODEL

FM METER

STOP LEVEL

LOUDNESS VOLUME BALANCE MUTING

TUNING MEMORY PRESET SCAN PHONO TAPE1 VIDEO CD TUNER FUNCTION

FM MODE BAND FM AM

TAPE2 MONITOR

BASS TONE TREBLE

SPEAKER IMPEDANCE USE 8-16Ω

CNJ903 HEADPHONES

BAT301 LITHIUM BATTERY (LR2032)

L301 100mH

D303 ISS133 D304 ISS133 D305 ISS133 D321 ISS133

D307 1SS133 D306-1 1SS133 D310 1SS133 D309 1SS133 D306-2 1SS133

D311 1SS133 D315 1SS133 D312 1SS133 D313 1SS133 D314 1SS133

D601 1SS133 D602 1SS133 D651 1SS133 D652 1SS133 D653 1SS133

D801 RB402 D805 MTZN20C

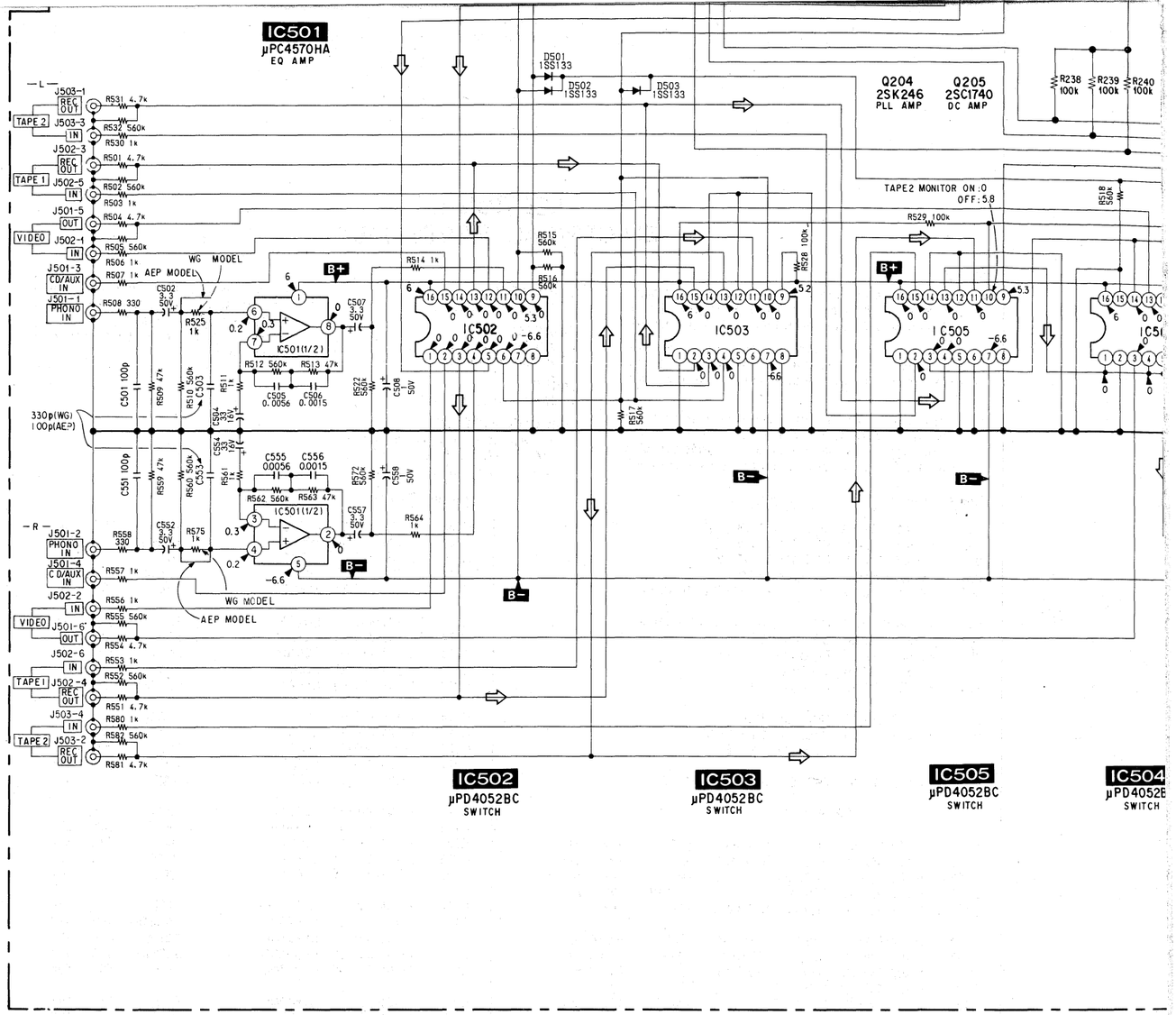
S301 S302 S303 S304 S305 S306 S307 S308 S309 S311 S312 S313 S314 S315 S316 S317 S318 S319 S320 S321 S322 S323 S324

S501 S502-1 S502-2 S6 S6-1 S6-2

TM901

F901 T1.6A

S901



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

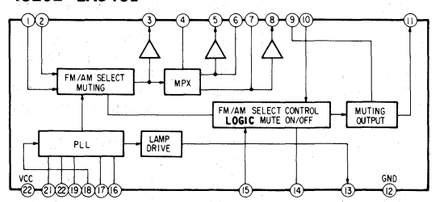
- : adjustment for repair.
- ※A-B: See Page 2 "Note on ceramic filter replacement and diode connection".
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- WG model: West Germany model

- Switch

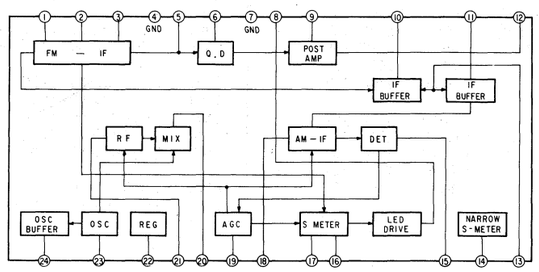
Ref. No.	Switch	Position
S6	SPEAKER	A
S301	TAPE 2 MONITOR	OFF
S302	TUNING +	OFF
S303	TUNING −	OFF
S304	PHONO	OFF
S305	FM MODE	OFF
S306	PRESET	OFF
S307	SCAN	OFF
S308	0	OFF
S309	VIDEO	OFF
S311	7	OFF
S312	8	OFF
S313	9	OFF
S314	TAPE 1	OFF
S315	AM	OFF
S316	4	OFF
S317	5	OFF
S318	6	OFF
S319	CD	OFF
S320	FM	OFF
S321	1	OFF
S322	2	OFF
S323	3	OFF
S324	TUNER	OFF
S501	LOUDNESS	OFF
S502	MUTING	OFF
S901	POWER	OFF

● IC BLOCK DIAGRAMS

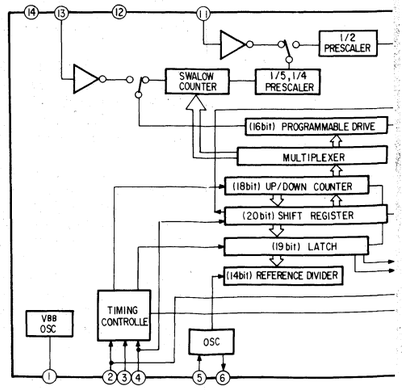
IC202 LA3401



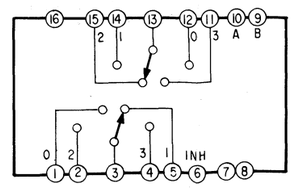
IC201 LA1266

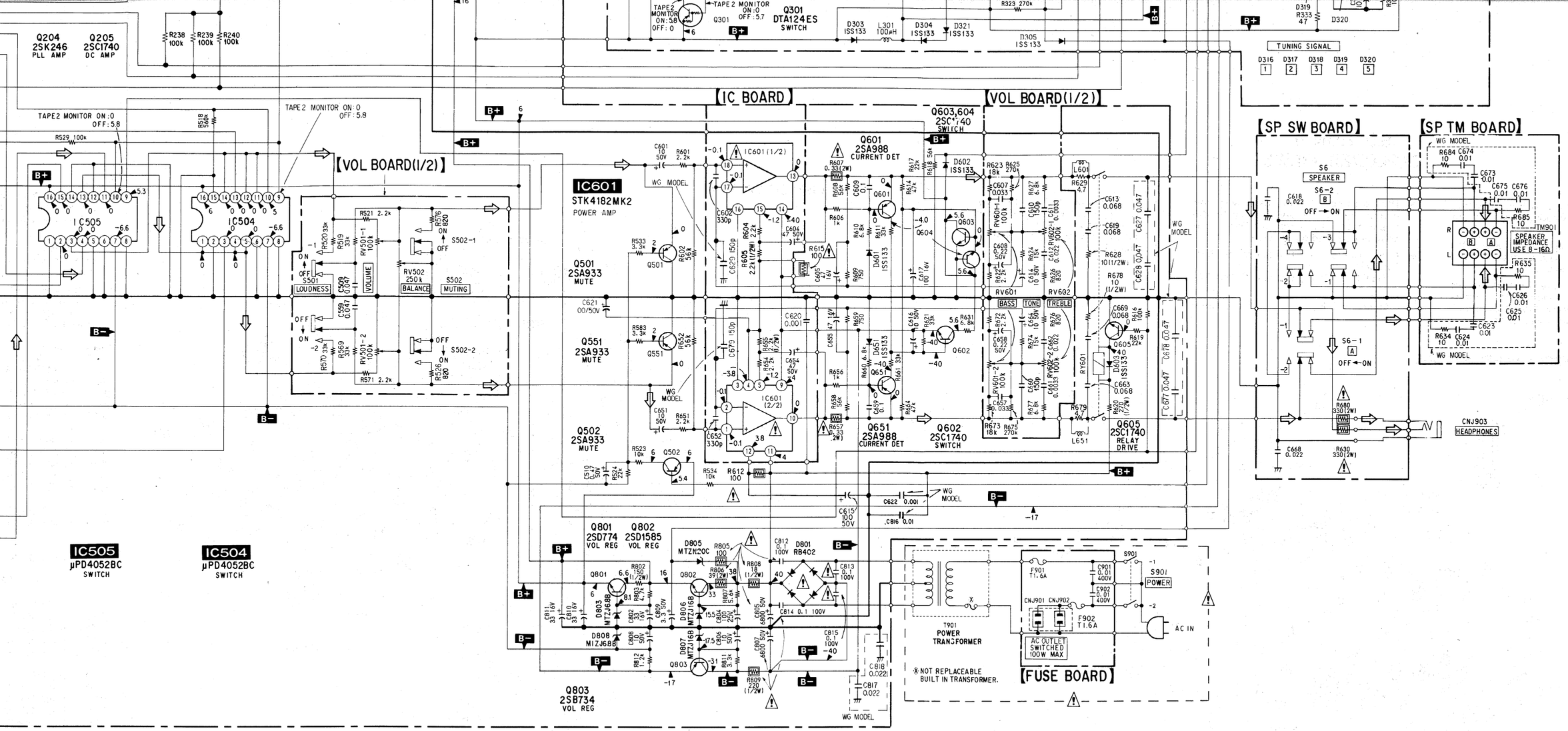


IC203 CX7925B



IC502-505 μPC4052BC

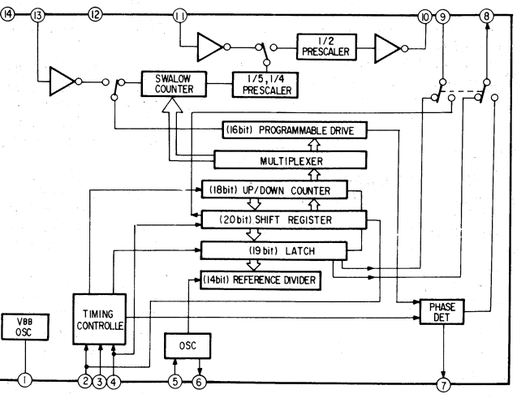




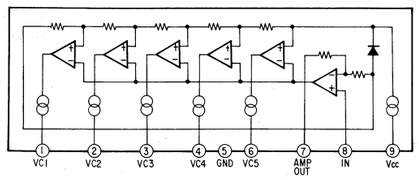
IC505 μPD4052BC SWITCH

IC504 μPD4052BC SWITCH

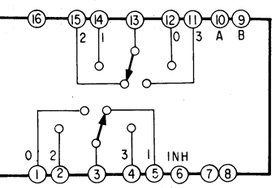
IC203 CX7925B



IC302 LB1423N



IC502-505 μPC4052BC



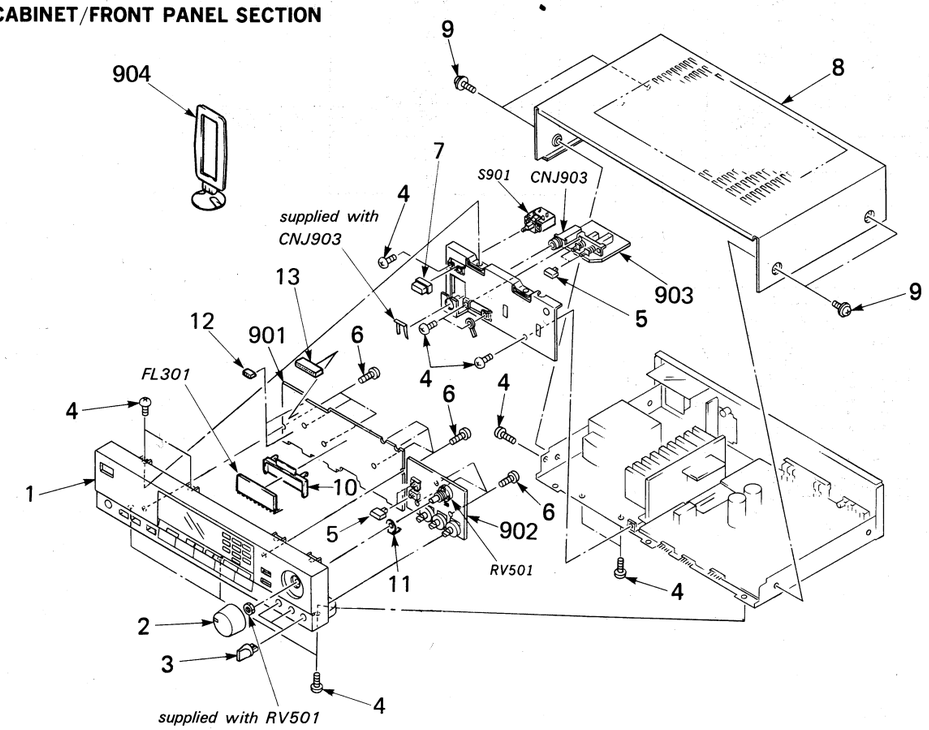
SECTION 4
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts Color

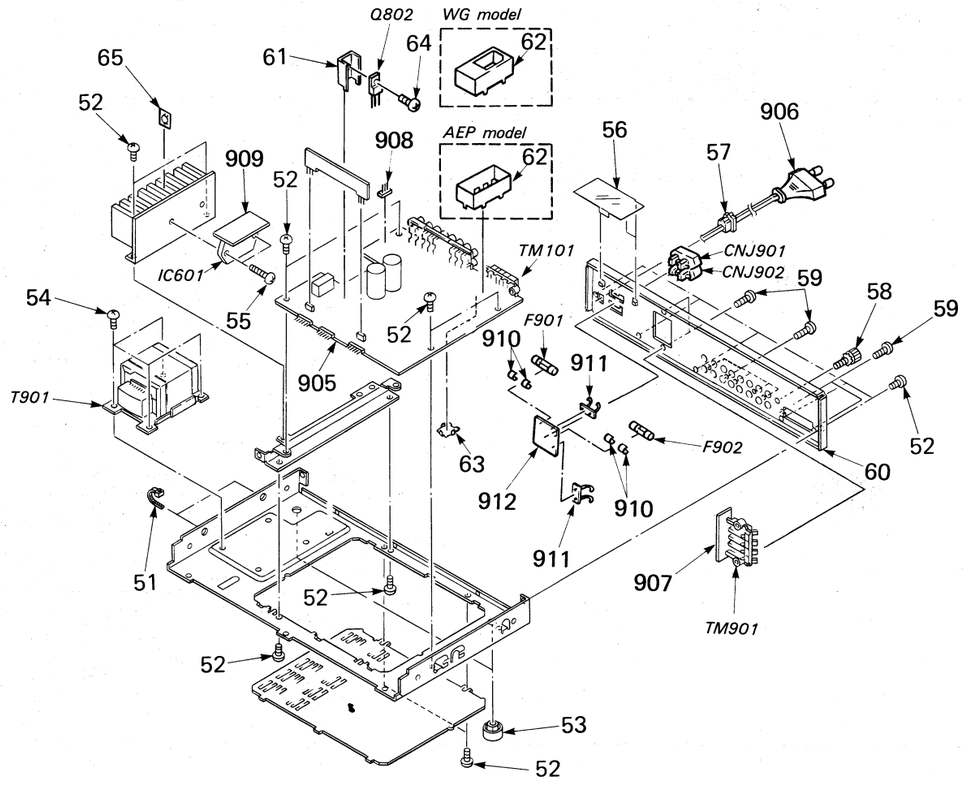
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-1. CABINET/FRONT PANEL SECTION



Ref.No	Part No.	Description	Remarks
1	A-4323-011-A	PANEL SUB ASSY	
2	4-925-121-52	KNOB (V2)	
3	4-925-014-01	KNOB (DIA.10)	
4	7-682-548-04	SCREW +BVTT 3X8 (S)	
5	4-924-901-01	BUTTON (M)	
6	7-685-135-19	SCREW +BTP 2.6X10 TYPE2 N-S	
7	4-917-460-01	KNOB, POWER	
8	4-925-066-01	CASE	
9	4-886-821-21	SCREW, M3 CASE STOPPER	
10	*4-884-011-03	HOLDER	
11	*4-925-044-01	BRACKET (VOL GROUND)	
12	*1-562-327-00	SOCKET, CONNECTOR 3P	
13	*1-565-699-11	SOCKET, CONNECTOR 10P	
901	*A-4472-310-A	MOUNTED PCB, DISPLAY	
902	*1-625-788-11	PC BOARD, VOL	
903	*1-625-790-11	PC BOARD, SP SW	
904	1-501-349-11	ANTENNA, LOOP	
CNJ903	1-507-863-31	JACK, LARGE TYPE (HEADPHONES)	
FL301	1-519-297-00	INDICATOR TUBE, FLUORESCENT	
S901	⚠1-554-685-11	SWITCH, PUSH (AC POWER)(1 KEY)	

4-2. CHASSIS SECTION



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description	Remarks
51	3-701-748-00	CLAMP	
52	7-682-548-04	SCREW +BVTT 3X8 (S)	
53	X-4921-901-1	FOOT ASSY	
54	7-682-560-04	SCREW +BVTT 4X6 (S)	
55	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
56	*4-919-186-01	COVER, POWER	
57	*3-703-244-00	BUSHING (2104), CORD	
58	*3-706-165-00	SCREW	
59	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
60	*4-919-193-41	(AEP)....PLATE, JACK	
60	*4-919-193-61	(WG)....PLATE, JACK	
61	*4-880-403-11	HEAT SINK	
62	*4-906-792-01	(AEP)....PLATE, SHIELD	
62	*4-906-803-01	(WG)....CASE, SHIELD	
63	*4-919-176-01	(WG)....PLATE, SHIELD	
64	4-909-982-01	TAPPING, SCREW	
65	4-881-752-01	NUT, PLATE, SPECIAL	
905	*A-4410-800-A	(WG)....MOUNTED PCB, MAIN	
905	*A-4410-801-A	(AEP)....MOUNTED PCB, MAIN	
906	⚠1-555-750-00	CORD, POWER	
907	1-625-791-11	PC BOARD, SP TM	
908	*1-535-116-00	TERMINAL	
909	*1-625-789-11	PC BOARD, IC	
910	1-533-183-11	HOLDER, FUSE	
911	*1-560-265-00	BASE POST (U-TYPE)	
912	*	PC BOARD, FUSE	
CNJ901	⚠1-526-794-11	OUTLET, AC	
CNJ902	⚠1-526-794-11	OUTLET, AC	
F901	⚠1-532-973-11	FUSE (T1.6A)	
F902	⚠1-532-973-11	FUSE (T1.6A)	
T901	⚠1-449-352-11	TRANSFORMER, POWER	
TM101	*1-537-138-21	(WG)....TERMINAL BOARD (ANT)	
TM101	*1-536-708-00	(AEP)....TERMINAL BOARD, PUSH 4P	
TM901	1-536-706-00	TERMINAL BOARD (SP) (SPEAKER)	

NOTE:

- Due to standardiz
  list may be diffe
  the diagrams or t
- Items marked "
  are seldom requi
  delay should be a
  items.
- If there are two
  such as a stereo
  circuit parts may
  resistors in other

Ref.No	Part No.	
901	*A-4472-310-A	
902	*1-625-788-11	
903	*1-625-790-11	
904	1-501-349-11	
905	*A-4410-800-A	
905	*A-4410-801-A	
906	⚠1-555-750-00	
907	*1-625-791-11	
908	*1-535-116-00	
909	*1-625-789-11	
910	1-533-183-11	
911	*1-560-265-00	
912	*	
BAT301	1-528-120-00	
C101	1-102-942-00	
C101	1-102-945-00	
C102	1-102-945-00	
C103	1-161-055-00	
C104	1-102-944-00	
C104	1-102-947-00	
C105	1-101-576-00	
C105	1-102-935-00	
C106	1-102-951-00	
C107	1-102-106-00	
C108	1-102-934-00	
C109	1-161-055-00	
C110	1-161-055-00	
C111	1-102-934-00	
C112	1-102-943-00	
C113	1-102-945-00	
C114	1-102-963-00	
C115	1-102-951-00	
C116	1-161-055-00	
C117	1-161-051-00	
C118	1-161-051-00	
C119	1-124-963-11	
C120	1-124-902-00	
C121	1-101-576-00	
C122	1-161-051-00	
C123	1-161-051-00	
C124	1-101-576-00	
C125	1-102-947-00	
C201	1-124-499-11	
C202	1-161-021-11	
C203	1-161-021-11	
C204	1-161-055-00	
C205	1-161-055-00	
C206	1-124-902-00	
C207	1-123-382-00	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description
901	*A-4472-310-A	MOUNTED PCB, DISPLAY
902	*1-625-788-11	PC BOARD, VOL
903	*1-625-790-11	PC BOARD, SP SW
904	1-501-349-11	ANTENNA, LOOP
905	*A-4410-800-A	(WG)....MOUNTED PCB, MAIN
905	*A-4410-801-A	(AEP)....MOUNTED PCB, MAIN
906	⚠1-555-750-00	CORD, POWER
907	*1-625-791-11	PC BOARD, SP TM
908	*1-535-116-00	TERMINAL
909	*1-625-789-11	PC BOARD, IC
910	1-533-183-11	HOLDER, FUSE
911	*1-560-265-00	BASE POST (U-TYPE)
912	*	PC BOARD, FUSE
BAT301	1-528-120-00	BATTERY, LITHIUM (CR-2025)

CAPACITOR

C101	1-102-942-00	(AEP)....CERAMIC	5PF	1PF	50V
C101	1-102-945-00	(WG)....CERAMIC	8PF	1PF	50V
C102	1-102-945-00	CERAMIC	8PF	1PF	50V
C103	1-161-055-00	CERAMIC	0.022MF	10%	25V
C104	1-102-944-00	(AEP)....CERAMIC	7PF	1PF	50V
C104	1-102-947-00	(WG)....CERAMIC	10PF	0.5PF	50V
C105	1-101-576-00	(WG)....CERAMIC	1.5PF	0.25PF	50V
C105	1-102-935-00	(AEP)....CERAMIC	2PF	0.25PF	50V
C106	1-102-951-00	CERAMIC	15PF	5%	50V
C107	1-102-106-00	CERAMIC	100PF	10%	50V
C108	1-102-934-00	(AEP)....CERAMIC	1PF	0.25PF	50V
C109	1-161-055-00	CERAMIC	0.022MF	10%	25V
C110	1-161-055-00	CERAMIC	0.022MF	10%	25V
C111	1-102-934-00	CERAMIC	1PF	0.25PF	50V
C112	1-102-943-00	CERAMIC	6PF	0.5PF	50V
C113	1-102-945-00	CERAMIC	8PF	0.5PF	50V
C114	1-102-963-00	CERAMIC	33PF	5%	50V
C115	1-102-951-00	CERAMIC	15PF	5%	50V
C116	1-161-055-00	CERAMIC	0.022MF	10%	25V
C117	1-161-051-00	CERAMIC	0.01MF	10%	25V
C118	1-161-051-00	CERAMIC	0.01MF	10%	25V
C119	1-124-963-11	ELECT	33MF	20%	16V
C120	1-124-902-00	ELECT	0.47MF	20%	50V
C121	1-101-576-00	(WG)....CERAMIC	1.5PF	0.25PF	50V
C122	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	25V
C123	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	25V
C124	1-101-576-00	(WG)....CERAMIC	1.5PF	0.25PF	50V
C125	1-102-947-00	(WG)....CERAMIC	10PF	0.5PF	50V
C201	1-124-499-11	ELECT	1MF	20%	50V
C202	1-161-021-11	CERAMIC	0.047MF	10%	25V
C203	1-161-021-11	CERAMIC	0.047MF	10%	25V
C204	1-161-055-00	CERAMIC	0.022MF	10%	25V
C205	1-161-055-00	CERAMIC	0.022MF	10%	25V
C206	1-124-902-00	ELECT	0.47MF	20%	50V
C207	1-123-382-00	ELECT	3.3MF	20%	50V
C208	1-123-382-00	ELECT	3.3MF	20%	50V
C209	1-130-481-00	MYLAR	0.0068MF	5%	50V
C210	1-124-477-11	ELECT	47MF	20%	16V
C211	1-130-491-00	MYLAR	0.047MF	5%	50V
C212	1-124-477-11	ELECT	47MF	20%	16V
C213	1-130-489-00	MYLAR	0.033MF	5%	50V
C214	1-102-963-00	CERAMIC	33PF	5%	50V
C215	1-102-112-00	CERAMIC	330PF	10%	50V
C216	1-123-875-11	ELECT	10MF	20%	50V
C217	1-161-055-00	CERAMIC	0.022MF	10%	25V
C218	1-124-902-00	ELECT	0.47MF	20%	50V
C219	1-124-499-11	ELECT	1MF	20%	50V
C220	1-124-499-11	ELECT	1MF	20%	50V
C221	1-124-499-11	ELECT	1MF	20%	50V
C222	1-123-875-11	ELECT	10MF	20%	50V
C223	1-102-115-00	CERAMIC	560PF	10%	50V
C224	1-102-115-00	CERAMIC	560PF	10%	50V
C225	1-124-499-11	ELECT	1MF	20%	50V
C226	1-123-875-11	ELECT	10MF	20%	50V
C227	1-123-875-11	ELECT	10MF	20%	50V
C228	1-161-055-00	CERAMIC	0.022MF	10%	25V
C229	1-161-055-00	CERAMIC	0.022MF	10%	25V
C230	1-161-055-00	CERAMIC	0.022MF	10%	25V
C231	1-161-055-00	CERAMIC	0.022MF	10%	25V
C232	1-101-890-00	CERAMIC	75PF	5%	50V
C233	1-101-880-00	CERAMIC	47PF	5%	50V
C234	1-123-875-11	ELECT	10MF	20%	50V
C235	1-123-382-00	ELECT	3.3MF	20%	50V
C236	1-124-963-11	ELECT	33MF	20%	16V
C237	1-102-106-00	CERAMIC	100PF	10%	50V
C238	1-102-963-00	CERAMIC	33PF	5%	50V
C239	1-123-875-11	ELECT	10MF	20%	50V
C301	1-162-282-31	CERAMIC	100PF	10%	50V
C302	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-161-494-00	CERAMIC	0.022MF		25V
C305	1-124-589-11	ELECT	47MF	20%	16V
C306	1-123-611-00	ELECT	1MF	20%	50V
C307	1-161-379-00	CERAMIC	0.01MF	30%	16V
C308	1-161-494-00	CERAMIC	0.022MF		25V
C312	1-124-261-00	ELECT	10MF	20%	50V
C401	1-161-055-00	CERAMIC	0.022MF	10%	25V
C402	1-161-055-00	CERAMIC	0.022MF	10%	25V
C403	1-123-875-11	ELECT	10MF	20%	50V
C404	1-161-055-00	CERAMIC	0.022MF	10%	25V
C501	1-102-106-00	CERAMIC	100PF	10%	50V
C502	1-123-382-00	ELECT	3.3MF	20%	50V
C503	1-102-106-00	(AEP)....CERAMIC	100PF	10%	50V
C503	1-102-112-00	(WG)....CERAMIC	330PF	10%	50V
C504	1-124-963-11	ELECT	33MF	20%	16V
C505	1-130-480-00	MYLAR	0.0056MF	5%	50V
C506	1-130-473-00	MYLAR	0.0015MF	5%	50V
C507	1-123-382-00	ELECT	3.3MF	20%	50V
C508	1-124-499-11	ELECT	1MF	20%	50V
C509	1-130-491-00	MYLAR	0.047MF	5%	50V
C510	1-124-902-00	ELECT	0.47MF	20%	50V
C551	1-102-106-00	CERAMIC	100PF	10%	50V
C552	1-123-382-00	ELECT	3.3MF	20%	50V
C553	1-102-106-00	(AEP)....CERAMIC	100PF	10%	50V
C553	1-102-112-00	(WG)....CERAMIC	330PF	10%	50V
C554	1-124-963-11	ELECT	33MF	20%	16V
C555	1-130-480-00	MYLAR	0.0056MF	5%	50V
C556	1-130-473-00	MYLAR	0.0015MF	5%	50V
C557	1-123-382-00	ELECT	3.3MF	20%	50V
C558	1-124-499-11	ELECT	1MF	20%	50V
C559	1-130-491-00	MYLAR	0.047MF	5%	50V
C601	1-123-875-11	ELECT	10MF	20%	50V
C602	1-102-112-00	CERAMIC	330PF	10%	50V
C604	1-124-910-11	ELECT	47MF	20%	50V
C605	1-124-477-11	ELECT	47MF	20%	16V
C607	1-130-489-00	MYLAR	0.033MF	5%	50V
C608	1-124-464-11	ELECT	0.22MF	20%	50V
C609	1-130-495-00	MYLAR	0.1MF	5%	50V
C610	1-102-108-00	CERAMIC	150PF	10%	50V
C611	1-130-477-00	MYLAR	0.0033MF	5%	50V
C612	1-130-487-00	MYLAR	0.022MF	5%	50V
C613	1-130-493-00	MYLAR	0.068MF	5%	50V
C614	1-123-875-11	ELECT	10MF	20%	50V
C615	1-124-122-11	ELECT	100MF	20%	50V
C616	1-123-875-11	ELECT	10MF	20%	50V
C617	1-126-101-11	ELECT	100MF	20%	16V
C618	1-161-055-00	CERAMIC	0.022MF	10%	25V
C619	1-130-493-00	MYLAR	0.068MF	5%	50V
C620	1-130-471-00	MYLAR	0.001MF	5%	50V
C621	1-124-122-11	ELECT	100MF	20%	50V
C622	1-130-471-00	(WG)....MYLAR	0.001MF	5%	50V
C623	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	25V
C624	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	25V
C625	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	25V
C626	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	25V
C627	1-161-021-11	(WG)....CERAMIC	0.047MF	10%	25V
C628	1-161-021-11	(WG)....CERAMIC	0.047MF	10%	25V
C629	1-102-108-00	(WG)....CERAMIC	150PF	10%	50V
C651	1-123-875-11	ELECT	10MF	20%	50V
C652	1-102-112-00	CERAMIC	330PF	10%	50V
C654	1-124-910-11	ELECT	47MF	20%	50V
C655	1-124-477-11	ELECT	47MF	20%	16V
C657	1-130-489-00	MYLAR	0.033MF	5%	50V
C658	1-124-464-11	ELECT	0.22MF	20%	50V
C659	1-130-495-00	MYLAR	0.1MF	5%	50V
C660	1-102-108-00	CERAMIC	150PF	10%	50V
C661	1-130-477-00	MYLAR	0.0033MF	5%	50V
C662	1-130-487-00	MYLAR	0.022MF	5%	50V
C663	1-130-493-00	MYLAR	0.068MF	5%	50V
C664	1-123-875-11	ELECT	10MF	20%	50V
C668	1-161-055-00	CERAMIC	0.022MF	10%	25V
C669	1-130-493-00	MYLAR	0.068MF	5%	50V
C673	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	25V
C674	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	25V
C675	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	25V
C676	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	25V
C677	1-161-021-11	(WG)....CERAMIC	0.047MF	10%	25V
C678	1-161-021-11	(WG)....CERAMIC	0.047MF	10%	25V
C679	1-102-108-00	(WG)....CERAMIC	150PF	10%	50V
C802	1-124-963-11	ELECT	33MF	20%	16V
C804	1-124-478-11	ELECT	100MF	20%	25V
C805	⚠1-126-307-11	ELECT	6800MF	20%	50V
C806	1-123-875-11	ELECT	10MF	20%	50V
C807	⚠1-126-307-11	ELECT	6800MF	20%	50V
C808	1-123-875-11	ELECT	10MF	20%	50V
C809	1-123-382-00	ELECT	3.3MF	20%	50V
C810	1-124-963-11	ELECT	33MF	20%	16V
C811	1-124-963-11	ELECT	33MF	20%	16V
C812	⚠1-130-777-00	FILM	0.1MF	5%	100V
C813	⚠1-130-777-00	FILM	0.1MF	5%	100V
C814	⚠1-130-777-00	FILM	0.1MF	5%	100V
C815	⚠1-130-777-00	FILM	0.1MF	5%	100V
C816	1-101-005-00	(WG)....CERAMIC	0.022MF		50V
C817	1-101-005-00	(WG)....CERAMIC	0.022MF		50V
C818	1-101-005-00	(WG)....CERAMIC	0.022MF		50V
C901	⚠1-161-744-00	CERAMIC	0.01MF		400V
C902	⚠1-161-744-00	CERAMIC	0.01MF		400V

CF101	1-567-389-11	FILTER, CERAMIC
CF102	1-567-389-11	(WG)....FILTER, CERAMIC
CF103	1-567-389-11	FILTER, CERAMIC
CNJ3	*1-562-334-00	SOCKET, CONNECTOR 10P
CNJ4	1-562-088-00	SOCKET, CONNECTOR 9P
CNJ5	*1-562-334-00	SOCKET, CONNECTOR 10P
CNJ6	*1-562-477-11	CONNECTOR (SOCKET) 3P
CNJ7	*1-562-477-11	CONNECTOR (SOCKET) 3P
CNJ901	⚠1-526-794-11	OUTLET, AC
CNJ902	⚠1-526-794-11	OUTLET, AC
CNJ903	1-507-863-31	JACK, LARGE TYPE (HEADPHONES)
CNP1	*1-564-778-11	PLUG, CONNECTOR (2.5MM) 4P
CNP3	1-565-419-11	PIN, CONNECTOR 10P
CNP4	1-560-943-00	PIN, CONNECTOR 9P
CNP5	1-565-419-11	PIN, CONNECTOR 10P
CNP6	1-506-569-11	PIN, CONNECTOR 3P
CNP7	1-506-569-11	PIN, CONNECTOR 3P
D101	8-719-918-45	DIODE KV1310
D102	8-719-918-45	DIODE KV1310
D103	8-719-918-45	DIODE KV1310
D104	8-719-918-45	(WG)....DIODE KV1310
D107	8-719-901-33	DIODE 1SS133
D201	8-719-901-33	DIODE 1SS133
D202	8-719-901-33	DIODE 1SS133
D203	8-719-901-33	DIODE 1SS133
D204	8-719-901-33	DIODE 1SS133
D301	8-719-940-99	DIODE SLR-34VC3
D302	8-719-940-82	DIODE SLR-34MC3
D303	8-719-901-33	DIODE 1SS133
D304	8-719-901-33	DIODE 1SS133
D305	8-719-901-33	DIODE 1SS133
D306-1	8-719-901-33	DIODE 1SS133
D306-2	8-719-901-33	DIODE 1SS133
D307	8-719-901-33	DIODE 1SS133
D309	8-719-901-33	DIODE 1SS133
D310	8-719-901-33	DIODE 1SS133
D312	8-719-901-33	DIODE 1SS133
D313	8-719-901-33	DIODE 1SS133
D314	8-719-901-33	DIODE 1SS133
D315	8-719-901-33	DIODE 1SS133
D316	8-719-940-82	DIODE SLR-34MC3
D317	8-719-940-82	DIODE SLR-34MC3
D318	8-719-940-82	DIODE SLR-34MC3
D319	8-719-940-82	DIODE SLR-34MC3
D320	8-719-940-82	DIODE SLR-34MC3
D321	8-719-901-33	DIODE 1SS133
D501	8-719-901-33	DIODE 1SS133
D502	8-719-901-33	DIODE 1SS133
D503	8-719-901-33	DIODE 1SS133
D601	8-719-901-33	DIODE 1SS133

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description
D602	8-719-901-33	DIODE 1SS133
D603	8-719-901-33	DIODE 1SS133
D651	8-719-901-33	DIODE 1SS133
D801	⚠8-719-300-57	DIODE RB402
D803	8-719-100-41	DIODE RD6.8E-B2
D805	8-719-100-80	DIODE RD20E-B2
D806	8-719-100-74	DIODE RD16E-B2
D807	8-719-100-77	DIODE RD18E-B2
D808	8-719-100-41	DIODE RD6.8E-B2
F901	⚠1-532-973-11	FUSE (T1.6A)
F902	⚠1-532-973-11	FUSE (T1.6A)
FL301	1-519-297-00	INDICATOR TUBE, FLUORESCENT
IC201	8-759-804-55	IC LA1266
IC202	8-759-801-80	IC LA3401
IC203	8-757-925-20	IC CX7925B
IC301	8-759-230-18	IC TMP47C210N-3074
IC302	8-759-801-04	IC LB1403N
IC501	8-759-112-93	IC UPC4570HA-1
IC502	8-759-102-37	IC UPD4052BC
IC503	8-759-102-37	IC UPD4052BC
IC504	8-759-102-37	IC UPD4052BC
IC505	8-759-102-37	IC UPD4052BC
IC601	⚠8-749-900-34	IC STK4182MK2
J501	1-565-320-11	JACK, PIN 6P (PHONO, CD/AUX, VIDEO)
J502	1-565-320-11	JACK, PIN 6P (VIDEO, TAPE1)
J503	1-565-258-21	JACK, PIN 4P (TAPE2)
L101	*1-402-258-11	COIL, ANT
L102	*1-422-077-00	(WG)....COIL, AIR-CORE
L102	1-426-304-11	(AEP)....COIL, RF (FM)
L103	*1-422-038-00	(WG)....COIL, AIR-CORE
L105	1-410-320-11	INDUCTOR 2.2UH
L106	*1-459-703-11	COIL (WITH CORE)
L107	*1-422-081-00	(WG)....COIL (WITH CORE)
L301	1-410-334-11	INDUCTOR 100UH
L401	1-410-328-11	INDUCTOR 10UH
L601	*1-420-872-00	COIL, AIR CORE
L651	*1-420-872-00	COIL, AIR CORE
LPF201	1-235-983-11	(WG)....FILTER
NO701	*1-562-251-00	SOCKET, CONNECTOR 6P
NO702	*1-562-250-00	SOCKET, CONNECTOR 5P
NO704	*1-562-249-00	SOCKET, CONNECTOR 4P
NO705	*1-562-249-00	SOCKET, CONNECTOR 4P
NO706	*1-562-249-00	SOCKET, CONNECTOR 4P
Q101	8-729-200-55	TRANSISTOR 2SK241-Y
Q102	8-729-353-52	TRANSISTOR 2SC535
Q103	8-729-672-44	TRANSISTOR 2SC2724-E
Q104	8-729-672-44	TRANSISTOR 2SC2724-E
Q105	8-729-672-44	TRANSISTOR 2SC2724-E
Q106	8-729-200-55	(WG)....TRANSISTOR 2SK241-Y
Q107	8-729-672-44	(WG)....TRANSISTOR 2SC2724-E
Q201	8-729-600-47	TRANSISTOR 2SC634SP
Q202	8-729-600-47	TRANSISTOR 2SC634SP
Q203	8-729-204-83	TRANSISTOR 2SA1048GR
Q204	8-729-224-62	TRANSISTOR 2SK246-GR
Q205	8-729-600-47	TRANSISTOR 2SC634SP
Q208	8-729-600-47	TRANSISTOR 2SC634SP
Q301	8-729-900-63	TRANSISTOR DTA124ES
Q501	8-729-204-83	TRANSISTOR 2SA1048GR
Q502	8-729-204-83	TRANSISTOR 2SA1048GR
Q551	8-729-204-83	TRANSISTOR 2SA1048GR
Q601	8-729-108-14	TRANSISTOR 2SA988-F

Ref.No	Part No.	Description
Q602	8-729-600-47	TRANSISTOR 2SC634SP
Q603	8-729-600-47	TRANSISTOR 2SC634SP
Q604	8-729-600-47	TRANSISTOR 2SC634SP
Q605	8-729-600-47	TRANSISTOR 2SC634SP
Q651	8-729-108-14	TRANSISTOR 2SA988-F
Q801	8-729-177-42	TRANSISTOR 2SD774-3
Q802	8-729-107-25	TRANSISTOR 2SD1585-L
Q803	8-729-103-43	TRANSISTOR 2SB734-T-5

RESISTOR

R101	1-249-441-11	CARBON	100K	5%	1/4W
R102	1-249-437-11	CARBON	47K	5%	1/4W
R103	1-249-403-11	CARBON	68	5%	1/4W
R104	1-249-411-11	CARBON	330	5%	1/4W
R105	1-249-441-11	CARBON	100K	5%	1/4W
R106	1-247-901-11	CARBON	820K	5%	1/4W
R107	1-249-411-11	CARBON	330	5%	1/4W
R108	1-247-893-11	CARBON	390K	5%	1/4W
R109	1-249-428-11	CARBON	8.2K	5%	1/4W
R110	1-249-428-11	CARBON	8.2K	5%	1/4W
R111	1-249-422-11	CARBON	2.7K	5%	1/4W
R112	1-249-429-11	CARBON	10K	5%	1/4W
R113	1-249-406-11	CARBON	120	5%	1/4W
R114	1-249-406-11	CARBON	120	5%	1/4W
R115	1-249-406-11	CARBON	120	5%	1/4W
R116	1-249-414-11	CARBON	560	5%	1/4W
R117	1-249-411-11	CARBON	330	5%	1/4W
R118	1-249-411-11	CARBON	330	5%	1/4W
R119	1-249-433-11	CARBON	22K	5%	1/4W
R120	1-249-433-11	CARBON	22K	5%	1/4W
R121	1-249-411-11	CARBON	330	5%	1/4W
R122	1-249-424-11	CARBON	3.9K	5%	1/4W
R123	1-249-414-11	CARBON	560	5%	1/4W
R126	1-249-433-11	(WG)....CARBON	22K	5%	1/4W
R127	1-249-433-11	(WG)....CARBON	22K	5%	1/4W
R128	1-249-411-11	(WG)....CARBON	330	5%	1/4W
R129	1-249-424-11	(WG)....CARBON	3.9K	5%	1/4W
R130	1-249-411-11	(WG)....CARBON	330	5%	1/4W
R131	1-249-441-11	CARBON	100K	5%	1/4W
R132	1-249-414-11	(WG)....CARBON	560	5%	1/4W
R133	1-249-437-11	(WG)....CARBON	47K	5%	1/4W
R201	1-249-433-11	CARBON	22K	5%	1/4W
R202	1-249-417-11	CARBON	1K	5%	1/4W
R203	1-249-425-11	CARBON	4.7K	5%	1/4W
R204	1-249-406-11	CARBON	120	5%	1/4W
R205	1-249-429-11	CARBON	10K	5%	1/4W
R206	1-249-429-11	CARBON	10K	5%	1/4W
R207	1-249-423-11	CARBON	3.3K	5%	1/4W
R208	1-249-425-11	CARBON	4.7K	5%	1/4W
R209	1-249-406-11	CARBON	120	5%	1/4W
R210	1-249-406-11	CARBON	120	5%	1/4W
R211	1-249-417-11	CARBON	1K	5%	1/4W
R212	1-249-441-11	CARBON	100K	5%	1/4W
R213	1-247-881-00	CARBON	120K	5%	1/4W
R214	1-247-883-00	CARBON	150K	5%	1/4W
R215	1-247-881-00	CARBON	120K	5%	1/4W
R216	1-247-883-00	CARBON	150K	5%	1/4W
R217	1-249-421-11	CARBON	2.2K	5%	1/4W
R218	1-249-425-11	CARBON	4.7K	5%	1/4W
R219	1-249-421-11	CARBON	2.2K	5%	1/4W
R220	1-249-425-11	CARBON	4.7K	5%	1/4W
R221	1-249-438-11	CARBON	56K	5%	1/4W
R222	1-249-423-11	CARBON	3.3K	5%	1/4W
R223	1-249-429-11	CARBON	10K	5%	1/4W
R224	1-249-438-11	CARBON	56K	5%	1/4W

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description				
R225	1-249-417-11	CARBON	1K	5%	1/4W	
R226	1-249-423-11	CARBON	3.3K	5%	1/4W	
R227	1-249-429-11	CARBON	10K	5%	1/4W	
R228	1-249-429-11	CARBON	10K	5%	1/4W	
R229	1-249-429-11	CARBON	10K	5%	1/4W	
R230	1-249-417-11	CARBON	1K	5%	1/4W	
R231	1-249-425-11	CARBON	4.7K	5%	1/4W	
R232	1-249-411-11	CARBON	330	5%	1/4W	
R233	1-249-417-11	CARBON	1K	5%	1/4W	
R234	1-249-406-11	CARBON	120	5%	1/4W	
R235	1-249-424-11	CARBON	3.9K	5%	1/4W	
R236	1-249-425-11	CARBON	4.7K	5%	1/4W	
R237	⚠1-247-701-11	CARBON	120	5%	1/4W	F
R238	1-249-441-11	CARBON	100K	5%	1/4W	
R239	1-249-441-11	CARBON	100K	5%	1/4W	
R240	1-249-441-11	CARBON	100K	5%	1/4W	
R241	⚠1-247-695-11	CARBON	39	5%	1/4W	F
R242	1-249-433-11	CARBON	22K	5%	1/4W	
R243	1-249-438-11	CARBON	56K	5%	1/4W	
R244	1-249-438-11	CARBON	56K	5%	1/4W	
R245	1-249-441-11	CARBON	100K	5%	1/4W	
R246	1-249-438-11	CARBON	56K	5%	1/4W	
R247	1-249-437-11	CARBON	47K	5%	1/4W	
R301	1-249-441-11	CARBON	100K	5%	1/4W	
R302	1-249-441-11	CARBON	100K	5%	1/4W	
R303	1-249-441-11	CARBON	100K	5%	1/4W	
R304	1-249-441-11	CARBON	100K	5%	1/4W	
R305	1-249-441-11	CARBON	100K	5%	1/4W	
R306	1-249-441-11	CARBON	100K	5%	1/4W	
R307	1-249-441-11	CARBON	100K	5%	1/4W	
R308	1-249-441-11	CARBON	100K	5%	1/4W	
R309	1-249-441-11	CARBON	100K	5%	1/4W	
R310	1-249-441-11	CARBON	100K	5%	1/4W	
R311	1-249-441-11	CARBON	100K	5%	1/4W	
R312	1-249-441-11	CARBON	100K	5%	1/4W	
R313	1-249-441-11	CARBON	100K	5%	1/4W	
R314	1-249-441-11	CARBON	100K	5%	1/4W	
R315	1-249-441-11	CARBON	100K	5%	1/4W	
R316	1-249-441-11	CARBON	100K	5%	1/4W	
R317	1-249-441-11	CARBON	100K	5%	1/4W	
R319	1-249-441-11	CARBON	100K	5%	1/4W	
R320	⚠1-216-430-11	METAL OXIDE	390	5%	1W	F
R322	1-249-410-11	CARBON	270	5%	1/4W	
R323	1-247-889-00	CARBON	270K	5%	1/4W	
R324	1-249-425-11	CARBON	4.7K	5%	1/4W	
R325	1-247-742-11	CARBON	180	5%	1/2W	
R326	1-249-441-11	CARBON	100K	5%	1/4W	
R327	1-249-425-11	CARBON	4.7K	5%	1/4W	
R328	1-249-438-11	CARBON	56K	5%	1/4W	
R329	1-249-438-11	CARBON	56K	5%	1/4W	
R331	1-249-429-11	CARBON	10K	5%	1/4W	
R333	1-249-401-11	CARBON	47	5%	1/4W	
R401	1-249-437-11	CARBON	47K	5%	1/4W	
R402	1-249-441-11	CARBON	100K	5%	1/4W	
R501	1-249-425-11	CARBON	4.7K	5%	1/4W	
R502	1-247-897-11	CARBON	560K	5%	1/4W	
R503	1-249-417-11	CARBON	1K	5%	1/4W	
R504	1-249-425-11	CARBON	4.7K	5%	1/4W	
R505	1-247-897-11	CARBON	560K	5%	1/4W	
R506	1-249-417-11	CARBON	1K	5%	1/4W	
R507	1-249-417-11	CARBON	1K	5%	1/4W	
R508	1-249-411-11	CARBON	330	5%	1/4W	
R509	1-249-437-11	CARBON	47K	5%	1/4W	
R510	1-247-897-11	CARBON	560K	5%	1/4W	
R511	1-249-417-11	CARBON	1K	5%	1/4W	

Ref.No	Part No.	Description				
R512	1-247-897-11	CARBON	560K	5%	1/4W	
R513	1-249-437-11	CARBON	47K	5%	1/4W	
R514	1-249-417-11	CARBON	1K	5%	1/4W	
R515	1-247-897-11	CARBON	560K	5%	1/4W	
R516	1-247-897-11	CARBON	560K	5%	1/4W	
R517	1-247-897-11	CARBON	560K	5%	1/4W	
R518	1-247-897-11	CARBON	560K	5%	1/4W	
R519	1-249-435-11	CARBON	33K	5%	1/4W	
R520	1-249-435-11	CARBON	33K	5%	1/4W	
R521	1-249-421-11	CARBON	2.2K	5%	1/4W	
R522	1-247-897-11	CARBON	560K	5%	1/4W	
R523	1-249-429-11	CARBON	10K	5%	1/4W	
R524	1-249-433-11	CARBON	22K	5%	1/4W	
R525	1-249-417-11	(WG)....CARBON	1K	5%	1/4W	
R526	1-249-416-11	CARBON	820	5%	1/4W	
R528	1-249-441-11	CARBON	100K	5%	1/4W	
R529	1-249-441-11	CARBON	100K	5%	1/4W	
R530	1-249-417-11	CARBON	1K	5%	1/4W	
R531	1-249-425-11	CARBON	4.7K	5%	1/4W	
R532	1-247-897-11	CARBON	560K	5%	1/4W	
R533	1-249-423-11	CARBON	3.3K	5%	1/4W	
R534	1-249-429-11	CARBON	10K	5%	1/4W	
R551	1-249-425-11	CARBON	4.7K	5%	1/4W	
R552	1-247-897-11	CARBON	560K	5%	1/4W	
R553	1-249-417-11	CARBON	1K	5%	1/4W	
R554	1-249-425-11	CARBON	4.7K	5%	1/4W	
R555	1-247-897-11	CARBON	560K	5%	1/4W	
R556	1-249-417-11	CARBON	1K	5%	1/4W	
R557	1-249-417-11	CARBON	1K	5%	1/4W	
R558	1-249-411-11	CARBON	330	5%	1/4W	
R559	1-249-437-11	CARBON	47K	5%	1/4W	
R560	1-247-897-11	CARBON	560K	5%	1/4W	
R561	1-249-417-11	CARBON	1K	5%	1/4W	
R562	1-247-897-11	CARBON	560K	5%	1/4W	
R563	1-249-437-11	CARBON	47K	5%	1/4W	
R564	1-249-417-11	CARBON	1K	5%	1/4W	
R569	1-249-435-11	CARBON	33K	5%	1/4W	
R570	1-249-435-11	CARBON	33K	5%	1/4W	
R571	1-249-421-11	CARBON	2.2K	5%	1/4W	
R572	1-247-897-11	CARBON	560K	5%	1/4W	
R575	1-249-417-11	(WG)....CARBON	1K	5%	1/4W	
R576	1-249-416-11	CARBON	820	5%	1/4W	
R580	1-249-417-11	CARBON	1K	5%	1/4W	
R581	1-249-425-11	CARBON	4.7K	5%	1/4W	
R582	1-247-897-11	CARBON	560K	5%	1/4W	
R583	1-249-423-11	CARBON	3.3K	5%	1/4W	
R601	1-249-421-11	CARBON	2.2K	5%	1/4W	
R602	1-249-438-11	CARBON	56K	5%	1/4W	
R604	1-247-717-11	CARBON	2.2K	5%	1/4W	
R605	1-247-756-11	CARBON	2.2K	5%	1/2W	
R606	1-249-417-11	CARBON	1K	5%	1/4W	
R607	⚠1-217-152-00	METAL PLATE	0.33		1/2W	F
R608	1-249-438-11	CARBON	56K	5%	1/4W	
R609	1-247-828-11	CARBON	750	5%	1/4W	
R610	1-249-427-11	CARBON	6.8K	5%	1/4W	
R611	1-249-435-11	CARBON	33K	5%	1/4W	
R612	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R614	1-249-437-11	CARBON	47K	5%	1/4W	
R615	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R616	1-249-441-11	CARBON	100K	5%	1/4W	
R617	1-249-433-11	CARBON	22K	5%	1/4W	
R618	1-249-438-11	CARBON	56K	5%	1/4W	
R619	1-249-433-11	CARBON	22K	5%	1/4W	
R620	1-247-744-11	CARBON	270	5%	1/2W	
R621	1-249-435-11	CARBON	33K	5%	1/4W	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description				
R622	1-249-421-11	CARBON	2.2K	5%	1/4W	
R623	1-249-432-11	CARBON	18K	5%	1/4W	
R624	1-249-431-11	CARBON	15K	5%	1/4W	
R625	1-247-889-00	CARBON	270K	5%	1/4W	
R626	1-249-416-11	CARBON	820	5%	1/4W	
R627	1-249-427-11	CARBON	6.8K	5%	1/4W	
R628	1-247-727-11	CARBON	10	5%	1/2W	
R629	1-249-455-11	CARBON	4.7	5%	1/4W	
R630	⚠1-215-914-11	WIREWOUND	330	10%	2W	F
R631	1-249-427-11	CARBON	6.8K	5%	1/4W	
R634	1-247-688-11	(WG)....CARBON	10	5%	1/4W	
R635	1-247-688-11	(WG)....CARBON	10	5%	1/4W	
R651	1-249-421-11	CARBON	2.2K	5%	1/4W	
R652	1-249-438-11	CARBON	56K	5%	1/4W	
R654	1-247-717-11	CARBON	2.2K	5%	1/4W	
R655	1-247-756-11	CARBON	2.2K	5%	1/2W	
R656	1-249-417-11	CARBON	1K	5%	1/4W	
R657	⚠1-217-152-00	METAL PLATE	0.33		2W	F
R658	1-249-438-11	CARBON	56K	5%	1/4W	
R659	1-247-828-11	CARBON	750	5%	1/4W	
R660	1-249-427-11	CARBON	6.8K	5%	1/4W	
R661	1-249-435-11	CARBON	33K	5%	1/4W	
R664	1-249-437-11	CARBON	47K	5%	1/4W	
R672	1-249-421-11	CARBON	2.2K	5%	1/4W	
R673	1-249-432-11	CARBON	18K	5%	1/4W	
R674	1-249-431-11	CARBON	15K	5%	1/4W	
R675	1-247-889-00	CARBON	270K	5%	1/4W	
R676	1-249-416-11	CARBON	820	5%	1/4W	
R677	1-249-427-11	CARBON	6.8K	5%	1/4W	
R678	1-247-727-11	CARBON	10	5%	1/2W	
R679	1-249-455-11	CARBON	4.7	5%	1/4W	
R680	⚠1-215-914-11	WIREWOUND	330	10%	2W	F
R684	1-247-688-11	(WG)....CARBON	10	5%	1/4W	
R685	1-247-688-11	(WG)....CARBON	10	5%	1/4W	
R802	1-247-741-11	CARBON	150	5%	1/2W	
R803	1-249-425-11	CARBON	4.7K	5%	1/4W	
R805	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R806	⚠1-216-448-11	METAL OXIDE	39	5%	2W	F
R807	1-249-426-11	CARBON	5.6K	5%	1/4W	
R808	⚠1-247-730-11	CARBON	18	5%	1/2W	F
R809	⚠1-247-743-11	CARBON	220	5%	1/2W	F
R811	1-249-423-11	CARBON	3.3K	5%	1/4W	
R812	1-249-418-11	CARBON	1.2K	5%	1/4W	
RV201	1-228-997-00	RES, ADJ, CARBON 100K				
RV202	1-228-998-00	RES, ADJ, CARBON 220K				
RV203	1-228-996-00	RES, ADJ, CARBON 47K				
RV501	1-238-074-11	RES, VAR, CARBON 100K/100K (VOLUME)				
RV502	1-238-073-11	RES, VAR, CARBON 250K (BALANCE)				
RV601	1-238-075-11	RES, VAR, CARBON 100K/100K (BASS)				
RV602	1-238-075-11	RES, VAR, CARBON 100K/100K (TREBLE)				
RY601	1-515-533-11	RELAY				
S6	1-571-033-11	SWITCH, PUSH (2 KEY) (SPEAKER)				
S301	1-554-303-21	SWITCH, KEY BOARD (TAPE2 MONITOR)				
S302	1-554-303-21	SWITCH, KEY BOARD (TUNING +)				
S303	1-554-303-21	SWITCH, KEY BOARD (TUNING −)				
S304	1-554-303-21	SWITCH, KEY BOARD (PHONO)				
S305	1-554-303-21	SWITCH, KEY BOARD (FM MODE)				
S306	1-554-303-21	SWITCH, KEY BOARD (PRESET)				
S307	1-554-303-21	SWITCH, KEY BOARD (SCAN)				
S308	1-554-303-21	SWITCH, KEY BOARD (0)				
S309	1-554-303-11	SWITCH, KEY BOARD (VIDEO)				
S311	1-554-303-21	SWITCH, KEY BOARD (7)				
S312	1-554-303-21	SWITCH, KEY BOARD (8)				
S313	1-554-303-21	SWITCH, KEY BOARD (9)				

Ref.No	Part No.	Description
S314	1-554-303-21	SWITCH, KEY BOARD (TAPE1)
S315	1-554-303-21	SWITCH, KEY BOARD (AM)
S316	1-554-303-21	SWITCH, KEY BOARD (4)
S317	1-554-303-21	SWITCH, KEY BOARD (5)
S318	1-554-303-21	SWITCH, KEY BOARD (6)
S319	1-554-303-21	SWITCH, KEY BOARD (CD)
S320	1-554-303-21	SWITCH, KEY BOARD (FM)
S321	1-554-303-21	SWITCH, KEY BOARD (1)
S322	1-554-303-21	SWITCH, KEY BOARD (2)
S323	1-554-303-21	SWITCH, KEY BOARD (3)
S324	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S501	1-571-445-11	SWITCH, PUSH (1 KEY) (LOUDNESS)
S502	1-571-445-11	SWITCH, PUSH (1 KEY) (MUTING)
S901	⚠1-554-685-11	SWITCH, PUSH (AC POWER) (1 KEY)
T101	1-404-363-00	TRANSFORMER, IF
T201	1-404-650-11	COIL, DISCRIMINATOR
T203	1-404-713-11	TRANSFORMER, IF
T401	1-235-936-11	ENCAPSULATED COMPONENT
T901	⚠1-449-352-11	TRANSFORMER, POWER
TM101	1-536-708-00	(AEP)....TERMINAL BOARD, PUSH 4P
TM101	*1-537-138-21	(WG)....TERMINAL BOARD (ANT)
TM901	1-536-706-00	TERMINAL BOARD (SP) (SPEAKER)
TP2	*1-560-060-00	PIN, CONNECTOR 2P
TP3	*1-560-061-00	PIN, CONNECTOR 3P
X201	1-567-250-11	OSCILLATOR, CERAMIC
X202	1-567-125-21	VIBRATOR, CRYSTAL
X301	1-527-822-00	OSCILLATOR, CERAMIC

ACCESSORY & PACKING MATERIAL

1-501-224-00	(AEP)....ANTENNA, FEEDER
3-769-885-11	MANUAL INSTRUCTION (ENGLISH, FRENCH, SPANISH : AEP)
3-769-885-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN)
*4-925-021-01	CUSHION, UPPER
*4-925-022-01	CUSHION, LOWER
*4-925-043-31	INDIVIDUAL CARTON

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Problem	Solution
FM STEREO indicator flickers or does not light up when FM stereo programs are received.	• Check the FM antenna connection, and adjust the antenna. • Press FM MODE to disengage the stereo mode.
The figures in the display window do not stop at the desired station during sweep tuning.	• Check the antenna connection, and adjust the antenna direction. • Tune in the station using the direct access tuning.
Stations cannot be tuned in correctly when the numeric button is pressed.	• Memorize the frequency correctly.
Audio is not heard.	• Check the speaker and program source connections. • Check that the appropriate FUNCTION selector or TAPE 2 MONITOR button is depressed. • Check that the appropriate SPEAKERS selector is depressed. If the A and B selectors are both depressed, check that both speaker systems are properly connected.
One channel does not transmit audio, or the volume from the left and right speakers is unbalanced.	• Adjust the BALANCE control. • Check the speaker connections.
There is an abrupt loss of sound from one or both of the speakers.	• Turn off the receiver, and check the speaker terminals or speaker cord for a short. (This symptom may be caused when the protection circuit inside the unit activates.)
Sound transmitted from the speaker is reversed.	• Connect the speaker correctly.
Severe hum or noise is heard.	• Use shielded connecting cords. • Keep the audio components further away from the TV. • Connect the ground wire to the ANTENNA ground terminal. • Clean any dirty plugs and jacks with a cloth lightly moistened with alcohol.

English
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Audio Group

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